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POPKOV, V.I., kand. tekhn. nauk; TER-OVAKIMYAN, I.A.; KOBYLYANSKIY, D.A.; KOLESNIKOV, P.A.; PERTSEV, G.V.; MARAKUSHEV, Ye.A.; KUSAKOV, S.I., retsenzent; PLEMYANNIKOV, M.N., red.; SHAPENKOVA, T.A., tekhn. red.

[Handbook for the clothing industry worker] Spravochnik shveinika. Moskva, Izd-vo nauchno-tekhn. lit-ry RSFSR. Vol.1. 1960. 335 p. (MIRA 15:1)

(Clothing industry)

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MARAKUSHEV, Ye.A.; KUSNER, B.A.; SAFRONOVA, I.V.; TARASOVA, V.P.; POPKOV, V.I., otv. red.; RUSAKOV, S.I., retsenzent; PLEMYANNIKOV, M.N., red.; VINOGRADOVA, G.A., tekhn. red.

[Handbook for workers of the sewing industry] Spravochnik shveinika. Moskva, Gos.izd-vo "Rostekhizdat," Vol.2. 1962. 299 p. (MIRA 15:3)

(Sewing)

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PANASYUK, V.I.; ASLANOVA, M.S., doktor khim. nauk, prof., retsenzent; TSOY, R.M., kand.tekhn.nauk, retsenzent; VAKSMAN, E.Ya., inzh., retsenzent; PLEKHANNIKOV, M.N., red.; ZOLOTAREVA, I.Z., tekhn. red.

[Chemical control of glass manufacture] Khimicheskii kontrol' proizvodstva stekla. Leningrad, Rastekhizdat, 1962. 195 p. (MIRA 15:7)
(Glass manufacture--Chemistry)

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TUGOV, Ivan Ivanovich; ARKHANGEL'SKIY, N.A., prof., doktor tekhn. nauk, retsenzent[deceased]; KOVIKOV, V.S., inzh., retsenzent; PLEMYANNIKOV, M.N., red.; GRACHEVA, A.V., red.; VINOGRADOVA, G.A., tekhn. red.

[Problems in the utilization of worn-out tires; complete reclaiming by the swelling method and secondary use of polymer materials from worn-out tires]Problemy ispol'zovaniia iznoshennykh shin; kompleksnaia regeneratsiia metodom nabukhaniia i vtorichnoe ispol'zovanie polimernykh materialov iz iznoshennykh shin. Moskva, Rostekhizdat, 1962. 368 p. (MIRA 15:9)

(Tires, Rubber) (Rubber, Reclaimed)

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TIMOKHIN, Nikolay Andreyevich; VOLKOV, V.A., inzh., retsenzent; PAVLOV, S.A., doktor tekhn.nauk,prof., nauchnyy red.; PLEMYANNIKOV, M.N., red.; ZOLOTAREVA, I.Z., tekhn. red.

[Manufacture of hide glue; new techniques, overall mechanization, and automation of production]Proizvodstvo mezdrovogo kleia; novaia tekhnologiia, kompleksnaia mekhanizatsiia i avtomatizatsiia proizvodstva). Moskva, Kostekhizdat, 1962. 147 p. (MIRA 15:9)

(Glue) (Automation)

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BABAKINA, Vera Grigor'yevna; CHERNOV, N.V., doktor tekhn. nauk, prof., retsenzent; FENIKSOVA, R.V., doktor biol. nauk, retsenzent; PLEMYANNIKOV, M.N., red.; KNAKNIN, M.N., tekhn. red.; VINOGRADOVA, G.A., tekhn. red.

[Use of ferments in the manufacture of leather]Primenenie fermentov v proizvodstve kozhi. Moskva, Rostekhizdat, 1962. 239 p. (MIRA 15:12)

(Leather research) (Fermentation)

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ISPIRYAN, G.P.; MERZON, A.G.; AFANAS'YEVA, A.A., dots., retsenzent;
PLEMYANNIKOV, M.N., red.; KNAKNIN, M.T., tekhn. red.

[Analysis of the production operations of leather factories]
Analiz proizvodstvennoi deiatel'nosti kozhevennykh zavodov.
Moskva, Rostekhizdat, 1962. 90 p. (MIRA 16:2)
(Leather industry--Accounting)

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MOREKHODOV, Gerasim Anatol'yevich; ZYBIN, Yu.P., doktor tekhn. nauk, prof., retsenzent; PLEVYANKOV, M.M., red.; KRAKHT, M.T., tekhn. red.

[Establishing norms for the expenditure of auxiliary shoemaking materials] Normirovanie raskhoda vspomogatel'nykh obuvnykh materialov. Moskva, Rostekhizdat, 1962. 121 p. (MIRA 16:2)

(Shoe manufacture)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PANIN, Petr Mikhaylovich; KUZ'MICHEV, F.I., kand. tekhn.nauk, retsenzent; PLEMYANNIKOV, M.N., red.; PYATNITSKIY, V.N., tekhn. red.; VINOGRADOVA, G.A., tekhn. red.

[Theory of the felting and forming processes of felt articles] Teoriia protsessov valki i formovki valianykh izdelii. Moskva, Rostekhizdat, 1962. 157 p. (MIRA 16:5)
(Feltwork) (Wool)

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ISPIRYAN, G.P., MERZON, A.G.; AFANAS'YEVA, A.A., dots., retsenzent; PLEMYANNIKOV, M.N., red.; KNAKNIN, M.T., tekhn. red.

[Analysis of the production work in leather factories] Analiz proizvodstvennoi deiatel'nosti kozhevennykh zavodov. Moskva, Rostekhizdat, 1962. 90 p. (MIRA 16:4)
(Leather industry--Auditing and inspection)

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MERTVISHCHEV, Yuriy Ivanovich; KUZ'MICHEV, F.I., kand. tekhn. nauk, retsenzent; PLEMYANNIKOV, M.N., red.; BATYREVA, G.G., tekhn. red.

[Use of synthetic fibers in the felt industry] Ispol'zovanie iskusstvennykh volokon v valial'no-voilochnoi promyshlennosti. Moskva, Rostekhizdat, 1963. 115 p. (MIRA 16:4)
(Synthetic fibers) (Nonwoven materials) (Felt)

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ABRAMOVICH, Il'ya Aleksandrovich. Prinimal uchastiye IVANOV, G.I., inzh.; KUCHER, P.Ye., inzh., retsenzent; PLEMYANNIKOV, M.N., red.; VINOGRADOVA, G.A., tekhn. red.

[Purification of sewage waters of leather factories] Ochistka stochnykh vod kozhevennykh zavodov. Moskva, Gizlegprom, 1963. 236 p. (MIRA 16:9)
(Leather industry) (Industrial wastes--Purification)

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GORNOSTAY-POL'SKIY, A.M., kand. ekon. nauk, dots.; ITIN, L.I., doktor ekon. nauk, prof.; PLEMYANNIKOV, M.N., red.; PYATNITSKIY, V.N., tekhn. red.

[Economics of light industry] Ekonomika legkoi promyshlennosti. Moskva, Gizlegprom, 1963. 483 p. (MIRA 17:1)

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DANILOV, Nikolay Gerasimovich; PLEMYANNIKOV, M.N., red.; PYATNITSKIY, V.N., tekhn. red.; VINOGRADOVA, G.A., tekhn.red.

[Study of the methods for the finishing of cellulose knit fabrics] Issledovanie sposobov otdelki tsellyulozmykh trikotazhnykh poloten. Moskva, Gizlegprom, 1963. 97 p. (MIRA 17:1)

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OVCHINNIKOV, Semen Ivanovich; PUSHKIN, Pavel Semenovich; GRISHIN, V.I., kand. tekhn. nauk, retsenzent; NOVIKOV, V.S., inzh., retsenzent; PLEKHANNIKOV, M.N., red.; DUKHOVNYY, F.N., red.

[Organization and planning of light industry enterprises] Organizatsiia i planirovanie predpriiatii legkoi promyshlennosti. Moskva, Izd-vo "Legkaia industriia," 1964. 275 p.
(MIRA 17:5)

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POPKOV, V.I., red.; RUSAKOV, S.I., retsenzent; RYCHKOVA, O.I., red.; PLEMYANNIKOV, M.N., red.; BATYREVA, G.G., tekhn. red.

[Handbook for the clothier] Spravochnik shveinika. Moskva, Izd-vo "Legkaia industriia." Vol.3. 1964. 397 p. (MIRA 17:4)

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OVCHINNIKOV, Semen Ivanovich; GRYZLOVA, T.A., dots., kand. tekhn. nauk, retsenzent; NOVIKOV, V.S., inzh., retsenzent; PLEMYANNIKOV, M.N., red.

[Organization and planning of shoe industry enterprises] Organizatsiia i planirovanie predpriiatii obuvnoi promyshlennosti. Moskva, Legakaia industriia, 1965. 174 p. (MIRA 18:7)

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MENDEL'SON, Dmitriy Aleksandrovich; AKONINA, Yu.N., dots., retsenzent; PLEVANNIKOV, M.N., red.

[Chemistry of fur dressing, bleaching and dyeing] Khimiia oblagorazhivaniia, otbelivaniia i krasheniia mekha. Moskva, Legkaia industriia, 1965. 313 p. (MIRA 18:12)

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GREKOV, Vasiliy Ivanovich. SMIRNOV, S.M., doktor tekhn.nauk, retsenzent
GUREVICH, S.L., inzh., retsenzent; PLEMYANNIKOV, M.N., red.
[Automation of production processes in light industry enterprises] Avtomatizatsiia tekhnologicheskikh protsessov na predpriiatiiakh legkoi promyshlennosti. Moskva, Legkaia industriia, 1965. 322 p. (MIRA 18:10)

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CHERNOV, Nikolay Vladimirovich; ARONINA, Yuliya Naumovna; GAYDAROV, Leonid Petrovich; GOLOVTEYEVA, Alevtina Alekseyevna; STRAKHOV, Ivan Pavlovich; SHESTAKOVA, Irina Sergeyevna; YEGOROV, N.I., prof., retsenzent; KOTOV, M.P., prof., retsenzent; PLEMYANNIKOV, M.N., red.; KNAKNIN, M.T., tekhn.red.

[Leather and fur technology] Tekhnologiia kozhi i mekha. Pod obshchei red. N.V.Chernova. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1959. 719 p. (MIRA 13:2)

1. Kafedra tekhnologii kozhi i mekha Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti (for Chernov, Aronina, Gaydarov, Golovteyeva, Strakhov, Shestakova).
(Leather) (Fur)

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VAYSBERG, Isaak Yefimovich, kand.tekhn.nauk; MASHNIKOV, Ye.I., retsenzent; ZAYTSEVA, T.M., red.; PLEMYANNIKOV, M.N., red.; MEDVEDEV, L.Ya., tekhn.red.

[Sole leather manufacture] Proizvodstvo kozhi dlia niza obuvi. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 192 p. (MIRA 13:4)

(Leather)

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PLEMYANNIKOV, M.N.

CHERKINSKIY, Boris Mendeleyevich; TOKAREV, Dmitriy Georgiyevich; SHAPKIN, Il'ya Fedorovich; ZOTOV, Petr Petrovich; SIMKIN,M.Ye., redaktor; PLEMYANNIKOV,M.N., redaktor; BAKASTOV,V.N., retsenzent; BRAZHKIN, M.I., retsenzent; MOTORIN,I.V., retsenzent; RATTEL',K.N., retsenzent; SHVYREV,S.S., retsenzent; NEKRASOVA,O.I., tekhnicheskiy redaktor

[Manual of power engineering for the textile industry] Spravochnik energetika tekstil'noi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo Ministerstva tekstil'noi promysh. SSSR. Vol.2.[Thermotechnics] Teplotekhnika. Pod red.M.E.Simkina. 1955. 510 p. (MLRA 9:2)
(Thermodynamics)

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PLEMYANNIKOV, M. N.

RUSAKOV, Sergey Ivanovich; SHERGEVNIN, Ivan Vasil'yevich; EPPEL', Sergey Sergeyevich; PLEMYANNIKOV, M.N., redaktor; ARKHIPOV, N.N., inzhener, retsenzent; EL'KINA, E.M., tekhnicheskiy redaktor

[Industrial sewing equipment] Oborudovanie shveinykh fabrik. Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1955. 463 p. (MLRA 9:1)
(Sewing machines)

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PLEMYANNIKOV, M N.

AVAYEV, Sergey Aleksandrovich; GARTUNG, Sergey Vasil'yevich; SHMELEV, Aleksandr Nikolayevich; PLEMYANNIKOV,M.N., redaktor; NETUSHIL,A.V. professor, doktor tekhnicheskikh nauk, retsenzent; TULYUSIN,M.V., inzhener, retsenzent; EL'KINA,Ye.M., tekhnicheskiy redaktor

[Electrical equipment for light industry] Elektrooborudovanie predpriiatii legkoi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo Ministerstva tekstil'noi promysh.SSSR, 1955. 308 p.
(Electric engineering) (MLRA 9:1)

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STRAKHOV, Ivan Pavlovich, prof.; ANOKHINA, Yuliya Naumovna, dots.; GAYDAKOV, Leonid Petrovich, dots.; GOLOVTEYEVA, Alevtina Alekseyevna, dots.; CHERNOV, Nikolay Vladimirovich, prof.; SHESTAKOVA, Irina Sergeyevna, prof.; KOZLOV, V.I., prof., retsenzent; KLOCHKOV, S.A., inzh., retsenzent; GRACHEVA, A.V., red.; LEBEDYANNIKOV, M.N., red.

[Chemistry and technology of leather and fur] Khimiia i tekhnologiia kozhi i mekha. Moskva, Legkaia industriia, 1964. 621 p. (MIRA 18:2)

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PANASYUK, Vitaliy Ivanovich; PLEMYANNIKOV, M.N., redaktor; KRASNOVSKIY, O.V., kandidat khimicheskikh nauk, retsenzent; EL'KINA, E.M., tekhnicheskiy redaktor.

[Chemical control of glass production] Khimicheskii kontrol' proizvodstva stekla. Izd. 2-e. Moskva, Gos. nauchno-tekhn.izd-vo Ministerstva promyshl.tovarov shirokogo potrebleniia SSSR, 1955. 295 p.
(Glass manufacture--Chemistry) (MLRA 8:4)

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PLEMYANNIKOV, M. N.

PCHELIN, Valentin Aleksandrovich, doktor khimicheskikh nauk ;SOKOLOV, S.I. professor, doktor tekhnicheskikh nauk, retsenzent; PLEMYANNIKOV, M.N. redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Measuring the activity of hydrogen ions (pH) and oxidation-reduction potentials, and potentiometric titration] Izmerenie aktivnosti vodorodnykh ionov (pH), okislitel'no-vosstanovitel'nykhpotentsialov i potentsiometricheskoe titrovanie. Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva promyshl.tovarov shirokogo potrebleniia SSSR, 1955. 205 p.
(Potentiometric analysis) (MLRA 8:12)
(Hydrogen-ion concentration)

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YAKOBSON, Aron Moiseyevich [deceased]; PLEMYANNIKOV, M.M., redaktor; BOGOSLOVSKIY, B.M., professor, redaktor; KNUNYANTS, I.L., akademik, retsenzent; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Dyes for furs] Krasiteli dlia mekha. 2-e izd. Pod red. B.M.Bogoslovskogo. Moskva, Gos. nauchno-tekh. izd-vo Ministerstva promyshl tovarov shirokogo potrebleniia SSSR, 1955. 134 p. (MLRA 8:6)
(Dyes and dyeing) (Fur)

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PLEMYANNIKOV, M.N.

VOLKOV, V.A., inzhener, redaktor; ZHEMOCHKIN, D.N., kandidat tekhnicheskikh nauk, redaktor; PLEMYANNIKOV, M.N., redaktor; SMOL'YAKOVA, M.V., tekhnicheskiy redaktor

[Handbook for leather industry workers] Spravochnik kozhevnika. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR. Vol. 3. 1954. 430 p. (MLRA 8:4)
(Leather industry)

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YERSHOV, Boris Mikhaylovich; KLEVTSOV, D.S.; PLEMYANNIKOV, M.N., redaktor; SMOL'YAKOVA, M.V., tekhnicheskiy redaktor

[Leather industry equipment] Oborudovanie kozhevennogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 430 p. (MLRA 7:10)
(Leather industry--Equipment and supplies)

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PLEMYANNIKOV, M. N.

SHALOV, Ivan Ivanovich; MELIKHOV, Savva Alekseyevich; MIKHAYLOV, Konstantin Dmitriyevich; LIPKOV, I.A., retsenzent; BURMISTROV, M.N., retsenzent; YAKUNKIN, M.T., retsenzent; PLEMYANNIKOV, M.N., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Planning knit goods factories]Proektirovanie trikotazhnykh fabrik. Pod red. I.I.Shalova. Moskva, Gos. nauchno-tekhnicheskoe izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 355 p. (MLRA 8:4)
(Textile factories) (Knit goods)

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PLEMYANNIKOV, M.N.

GORSKOV, Vladimir Alekseyevich; PUSHKIN, P.S., kandidat tekhnicheskikh nauk, retsenzent; POLYAK, T.B., kandidat tekhnicheskikh nauk, retsenzent; UTKIN, V.A., retsenzent; PLEMYANNIKOV, M.N., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Labor management and production norms in the glass industry] Organizatsiia truda i tekhnicheskoe normirovanie v stekol'nom proizvodstve. Moskva, Gos. nauchno-tekhn. izd-vo ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 354 p. [Microfilm] (MLRA 8:2)
(Glass manufacture) (Industrial management)

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KUZ'MICHEV, F.I.; LEVIN, M.I.; MASLENNIKOV, S.M., retsenzent; PLEMYANNIKOV, M.N., redaktor; EL'KINA, E.M., tekhnicheskiy redaktor.

[Technology of felt manufacture] Tekhnologiia valial'no-voilochnogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 270 p.
(Felt) (Shoe industry) (MLRA 7:12)

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KUZYAK, V.A.; VOLKOV, I.I., retsenzent; PLEMYANNIKOV, M.N., redaktor; NEKRASOVA, O.I., tekhnicheskiy redaktor

[Kilns for annealing glass] Pechi dlia otzhiga stekla. Moskva, Gos. nauchno-tekhn. izd-vo legkoi promyshlennosti, 1952. 152 p. [Microfilm] (MLRA 7:10)

(Kilns) (Glass manufacture)

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PIROZHKOV, N.A.; MYSHLYAYEV, I.V., retsenzent; PLEMYANNIKOV, M.N., redaktor; STOL'YAKOVA, M.V., tekhnicheskiy redaktor

[Production of carbon black] Proizvodstvo sazhi. Moskva, Gos. nauchno-tekhn. izd-vo legkoi promyshlennosti, 1951. 118 p. (Carbon black) (MLRA 7:8)

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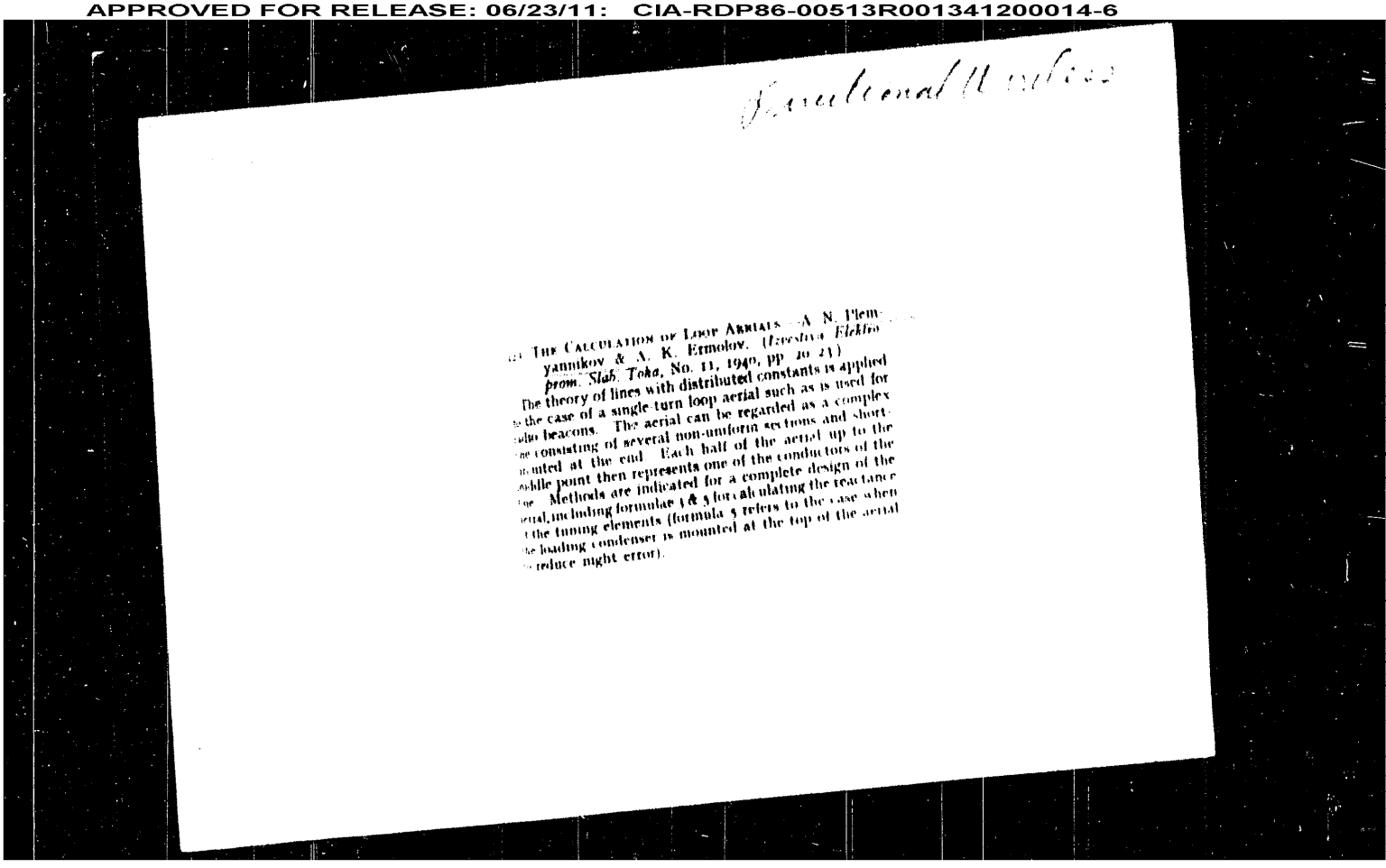

621 THE CALCULATION OF LOOP AERIALS.—A. N. Plem-
yannikov & A. K. Ermolov. (*Izvestiya Elektro-
prom. Slab. Toka*, No. 11, 1940, pp. 30–41.)

The theory of lines with distributed constants is applied to the case of a single-turn loop aerial such as is used for radio beacons. The aerial can be regarded as a complex line consisting of several non-uniform sections and short-mounted at the end. Each half of the aerial up to the possible joint then represents one of the conductors of the line. Methods are indicated for a complete design of the aerial, including formulae 4 & 5 for calculating the reactance of the tuning elements (formula 5 refers to the case when the loading condenser is mounted at the top of the aerial to reduce night error).

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L 18015-63
ACCESSION NR: AP3003392

function for various relative lengths of 2- and 3-section land-sea combinations are presented. Results of a numerical example (100 km total land-sea propagation path) illustrate the design formulas. Orig. art. has: 9 figures and 27 formulas.

ASSOCIATION: Kafedra antenn i rasprostraneniya radiovoln Leningradskogo elektrotekhnicheskogo institute svyazi im. prof. M. A. Bonch-Bruyevicha (Department of Antennas and Propagation of Radio Waves, Leningrad Electrotechnical Institute of Communications)

SUBMITTED: 26Nov62 DATE ACQ: 02Aug63 ENCL: 00

SUB CODE: CO, CG NO REF SOV: 001 OTHER: 000

Card 2/2

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L 18015-63 BDS/EEC-2/ES(t)-2 AFFTC/ASD/ESD-3/APGC Pg-4/Pl-4 RB

ACCESSION NR: AP3003392 S/0142/63/006/003/0230/0238

72
71

AUTHOR: Plemyannikov, A. N.

TITLE: Problem of radio wave propagation over a nonuniform Earth surface Part 1. Plane Earth

SOURCE: IVUZ. Radiotekhnika, v. 6, no. 3, 1963, 230-238

TOPIC TAGS: radio wave propagation

ABSTRACT: Based on the works of Russian scientists M. V. Shuleykin, V. A. Fok, Yu. K. Kalinin, and Ye. L. Feynberg (Propagation of radio waves over the Earth's surface, AN SSSR, 1961), an attempt is made to develop an engineering method for calculating errors of a radionavigational system which are due to the underlying surface. A generalized method for calculating the amplitude and phase of the waves propagating over sections of flat land and sea surfaces is set forth. Formulas and graphs for computing modulus and argument of the attenuation

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PLEMYANNIKOV, A. G.

"The Morphological Characteristics of the Heart and Arteries of the Main Cycle of Blood Circulation in Some New Breeds of Shiip in Comparison to Their Original Form." Cand (field not given), Department of Biol and Med Sci, Acad Sci Kazakh SSR. (Vest Ak Nauk KazSSR, No 2, Feb 55)

SO: Sum. No 631, 26 Aug 55-Survey of Scientific and Technical Dessertations Defended at USSR Higher Educational Institutions (14)

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PLEMYANNIKOV, A.G., aspirant

Morphological characteristics of the heart of Kazakh fine-wool sheep and their initial forms and of the new strain of Priaral'ye fine-wool sheep. Trudy Inst.eksp.biol. AN Kazakh.SSR 2:94-112 '54. (MLRA 10:2)
(KAZAKHSTAN--SHEEP BREEDS)
(HEART)

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PLEMYANNIKOV, A.G., aspirant

Morphological characteristics of the heart of Kazakh wool goats as compared with the initial forms. Trudy Inst.eksp.biol. AN Kazakh. SSR 2:193-206 '54. (MLRA 10:2)
(KAZAKHSTAN--GOATS) (HEART)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLEMYANNIKOV, A.G., aspirant

Morphological characteristics of the heart of Kazakh Arkharomerino sheep. Trudy Inst.eksp.biol. AN Kazakh.SSR 2:23-37 '54. (MLRA 10:2)
(KAZAKHSTAN--SHEEP BREEDS) (HEART)

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1. ATONENKO, M. V.; NESTERENKO, V. V.; PLEMYASHOV, A. S. Engs.

2. USSR (600)

4. Mining Engineers

7. Block-caving system at the Ingulets mine. Gor. Zhur no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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PLEMYANNIKOV, A. N.

129. THE CALCULATION OF LOOP AERIALS.—A. N. Plemyannikov & A. K. Ermolov. (*Izvestiya Elektroprom. Slab. Toka*, No. 11, 1940, pp. 20–23.)

The theory of lines with distributed constants is applied to the case of a single-turn loop aerial such as is used for radio beacons. The aerial can be regarded as a complex line consisting of several non-uniform sections and short-circuited at the end. Each half of the aerial up to the middle point then represents one of the conductors of the line. Methods are indicated for a complete design of the aerial, including formulae 3 & 5 for calculating the reactance of the tuning elements (formula 5 refers to the case when the loading condenser is mounted at the top of the aerial to reduce night error).

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PLEMINTEVA, T.

"Influence of intensive improvement in cuttings on the quality of [illegible] stands." Tr. from the Russian. p. 35. (ANALELE ROMÂNO-SOVIETICE. SERIA [illegible]. INDUSTRIA LEMNULUI SI A HÂRTIEI, Vol. 7, seria a II-a, no. 14, July/Aug. 1952. Bucuresti.)

SO: Monthly List of East European Accessions, Vol. 2, #2, Library of Congress August, 1953, Uncl.

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PLEMENOV, A.

Moving Picture Projectors

Fulfill the plan for supplying spare parts. Kinomekhanik no. 8, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

KATAYEV, Ye.G.; PLEMENKOV, V.V.

Thionylamines in diene synthesis. Zhur.ob.khim. 32 no.11:3817-3823 N '62. (MIRA 15:11)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina.
(Amines)
(Chemistry, Organic--Synthesis)

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L 36473-66 EWT(m)/EWP(j) RM

ACC NR: AP6027040 SOURCE CODE: UR/0020/65/165/006/1313/1316

AUTHOR: Katayev, Ye. G.; Plemenkov, V. V.; Markin, V. V.

ORG: Kazan State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Diethylphosphoric acid thionylamide in the diene synthesis reaction

SOURCE: AN SSSR. Doklady, v. 165, no. 6, 1965, 1313-1316

TOPIC TAGS: diene synthesis, phosphoric acid, chloride, organic amide, phenyl compound, isomer

ABSTRACT: The authors attempted to synthesize diethylphosphoric acid thionylamide by treating thionyl chloride with diethylphophoric acid amide; the attempt was successful, with the formation of (phosphonyl thionylamide) and release of hydrogen chloride following the addition of an equimolar amount of thionyl chloride to a benzene solution of diethylphosphoric acid amide and heating for 30 min. Since aromatic thionylamines, particularly those with electro-acceptor groups in the phenyl nucleus, as well as thionylsulfonamides, react fairly actively with various dienes, it was to be expected that phosphonyl thionylamide also would be an active dienophil; this was confirmed by reaction of phosphonyl thionylamide with various dienes (butadiene-1,3, isoprene, hexadiene-2,4, chloroprene, etc.). It was established that reaction between phosphonyl thionylamide and asymmetrically-substituted dienes is bound to lead to two structural isomers for each reaction. This article was presented by Academician B. A. Arbuzov on 12 April 1965. The authors thank Yu. Yu. Samitov, A. A. Musinaya and E. G. Yarkovaya for the plotting of the nuclear magnetic resonance and infrared spectrums and for yaluable consultations concerning their interpretations. Orig. art. has: 1 figure and 1 table. [JPRS: 36,455]

SUB CODE: 07, 20 / SUBM DATE: 09Apr65 / ORIG REF: 004 / OTH REF: 006

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLEMELJ, JOSIP

Math. Educ.

*Plemelj, Josip. Teorija analitičnih funkcij. [Theory of analytic functions.] Slovenska Akademija Znanosti in Umetnosti, Ljubljana, 1953. xvi+516 pp.

This is a textbook of the theory of analytic functions of one complex variable in the best classical style. Besides the usual elementary topics it treats the elliptic functions, the elliptic modular functions, Picard's and Landau's theorems, potentials, the Dirichlet problem and mapping theorem, uniformization, and Abelian integrals. The book merits to be used widely. It is unfortunate that this is impossible because of the little known language (Slovenian) it is written in. *M. Golomb* (Lafayette, Ind.).

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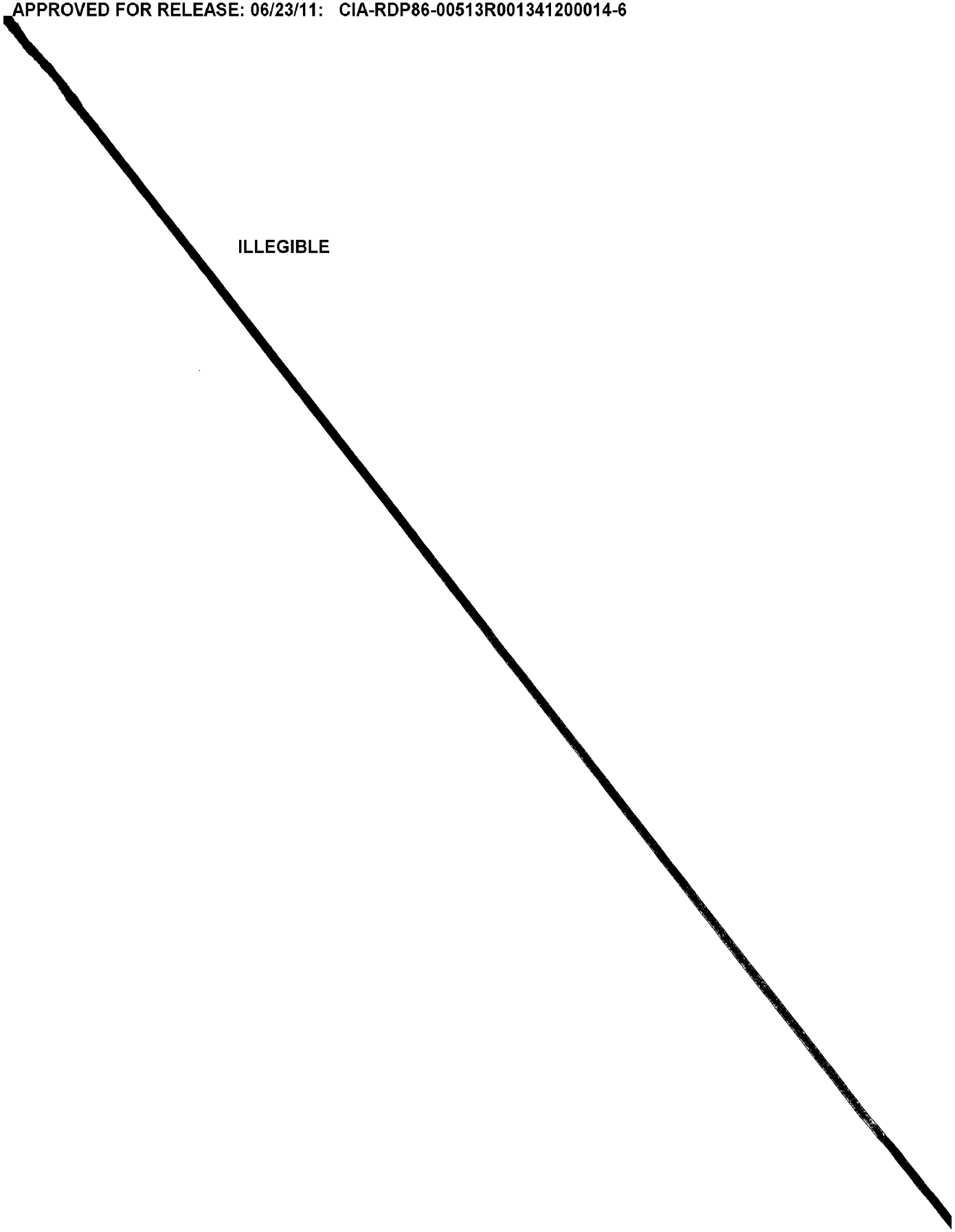

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PLEKHOV, V.I., kandidat filosofskikh nauk (g.Borisoglebsk)

N.G.Chernyshevskii's atheism. Nauka i zhizn' 23 no.9:29 S '56.
(Chernyshevskii, Nikolai Gavrilovich, 1828-1889) (MLRA 9:10)

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PLEKHOV, O.G., inzh. (Arkhangel'sk)

Long-length rails on logging railroads. Put' i put.khoz. 7 no.7:7 '63. (MIRA 16:10)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

L 9409-66 EWT(m)/T WE

ACC NR: AP5026257 SOURCE CODE: UR/0331/65/000/007/0021/0022

AUTHOR: Plekhov, O. G.

ORG: none

32
B

TITLE: A rail grinder on the base of a "Druzhba" gasoline saw

SOURCE: Lesnaya promyshlennost', no. 7, 1965, 21-22

TOPIC TAGS: grinding, grinding machine, abrasive, railway track, gasoline engine, internal combustion engine

ABSTRACT: A rail grinder for grinding the welded joints on rails used for timber transport has been built on the base of the "Druzhba" gasoline-powered saw. It was developed because of the lack of electrical power sources in the field. The device consists of a gasoline engine, a grinding head, and a support and an adjusting roller (see Fig. 1). The abrasive wheel can be inclined for grinding the side surface of rails. The grinder can also be used for cleaning the ends of rails before welding and for dressing welded seams and sharpening tools. The abrasive wheel is of the type E 125B, 200 x 20 x 32. The weight, with engine, is 22 kg; the speed is 2500 rpm.

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UDC: 621.924.5

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PLEKHOV, I.M.; USTINOV, V.F.; GUREVICH, A.L.

Centralized feed of carbon dioxide and air mixtures. Lit. proizv. no.10:19-20 0 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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PLEKHOV, D. N.; MIROSHNIKOV, P. P., inzh.; KURCHERENKO, K. P., kand. tekhn. nauk

Mechanized units for molding three-dimensional elements of apartment houses. Stroi. i dor. mashinostr. 5 no.6:31-34 Je '60.
(Precast concrete construction) (MIRA 13:7)

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PLEKHOV, A., starshiy leytenant.

Heirs to glory. Sov.mor. 16 no.19:13-14 O '56. (MLRA 10:2)

(Russia--Army--Coast artillery)

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PLEKHOTIN, A.P.

Theorem of the existence and uniqueness of a solution to a boundary value problem for a system of ordinary differential equations. Dokl.AN SSSR 123 no.4:613-615 D'58. (MIRA 11:12)

1. Predstavleno akademikom V.I.Smirnovym.
(Differential equations)

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BELYASHOV, N.M.; PLEKHOVA, K.R.

Effect of sedimentary anhydrite on metasomatic processes in the formation of the Kachar magnetite deposit (Tourgay trough). Geol. rud. mestorozh. 7 no.2:38-49 Mr-Ap '65. (MIRA 18:7)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya, Alma-Ata.

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PLEKHOV, N.D.; MIROSHNIKOV, P.P.

Over-all mechanization and automation of the manufacture of concrete products in the Ukrainian S.S.R. Bet. i zhel.-bet. no.10:446-449 O '61. (MIRA 14:12)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury USSR (for Plekhov). 2. Rukovoditel' laboratorii Nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury USSR (for Miroshnikov).
(Ukraine—Precast concrete)

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PLEKHOV, N.D.; REZNICHENKO, V.I., inzh.

Three-dimensional units for housing construction. Bet.i zhel.-bet. no.4:152-157 Ap '60. (MIRA 13:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury (for Plekhov).

(Precast concrete construction)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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[illegible], M.P., kand.tekhn.nauk; [illegible], N., inzh.

Full-scale observations of deformations of three-dimensional elements and joints in buildings with prefabricated room units. Stroi.konstr. no.1:73-79 '55.

(MLRA 10:1)

1. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Gosstroya SSSR, Kiyev.

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PLEKHOV, N.D.; LUPAN, A.M.; ABRAMOV, L.S.; BOGDANOVSKIY, V.S.; REZNICHENKO, V.I.; GREKOVA, Z.I.; GOLUB, P.I.; ENDRZHEYEVSKIY, Ye.V.; BELOSHKURSKIY, P.I.; PODDUBNAYA, N.A.; MIROSHNIKOV, P.P.; KORNEYEVA, L.P.; ZLOTNIKOV, G.Z.; PAVLIS, G.F.; SKACHKOV, I.A.; SEDELEVA, Ye.P.; POLTORATSKAYA, E.A., red.; LEUSHCHENKO, N.L., tekhn.red.

[Three-dimensional apartment house construction] Ob"emnoe domostroenie. Kiev, Gosstroiizdat USSR, 1963. 165 p. (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy.

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PLEKHOV, Nikolay Dmitriyevich; BEZBORODOV, G.N., otv.red.; TEPLYAKOVA, A.S., red.

[Achievements in structural engineering and prospects for its development] Dostizheniia stroitel'noi tekhniki i perspektivy ee razvitiia. Kiev, 1960. 33 p. (Obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii Ukrainskoi SSR. Ser.7, no.10). (MIRA 14:2)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury USSR (for Plekhov).
(Precast concrete construction) (Ukraine--Apartment houses)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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PLEKHOV, Nikolay Dmitriyevich, kand. tekhn. nauk, dots.; IVANOV, S.M., red.

[Apartment houses made of block rooms] Zhilye doma iz blok-komnat. Moskva, Znanie, 1965. 16 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.13) (MIRA 18:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLEKHOV, N.

Prefabricated room units in construction. Zhil. stroi. no.2:2-5 F '61. (MIRA 14:1)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury USSR.
(Precast concrete construction)

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PLEKHOV, N.

Three-dimensional elements in housing construction. Zhil. stroi. no.4:6-9 '62. (MIRA 15:5)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury USSR.
(Buildings, Prefabricated) (Apartment houses)

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PLEKHOV, M. [Pliekhov, M.]

Cities from a production line. Nauka i zhyttia 11 no.3:32-34 Mr '62. (MIRA 15:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury UkrSSR.

(Buildings, Prefabricated)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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FEDYAYEV, B.P., podpolkovnik meditsinskoy sluzhby; FEDOROV, K.V.., podpolkovnik meditsinskoy sluzhby; PLASHKEVICH, A.S., podpolkovnik meditsinskoy sluzhby; PLEKHOV, K.V., mayor meditsinskoy sluzhby; SAAKOV, G.T., mayor meditsinskoy sluzhby

Disinfecting properties of "KhB" preparation. Voen.-med.zhur. no.9: S '56. (MLRA 10:3)

(DISINFECTION AND DISINFECTANTS) (CHLORAMIDE)

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Approximation method...

$p_k = p_o + (Q + Q_p - Q_\phi)/F_2$; $p_i = p_k + sx_k/F_2$. Eqs. (15) to (18) can be used for $v_{mean} \cdot m < 0.3$; considerable pressure fluctuations occur in the case of $v_{mean} \cdot m > 0.3$, and a reciprocating piston motion is even possible in the case of $v_{mean} \cdot m > 1$. Fig. 3 shows the calculated and experimental diagrams of pressure change and displacement for the straight motion. This study was recommended by the Department of Automation of Chemical Establishments. There are 3 figures and 4 Soviet-bloc references.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: November 25, 1960

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Approximation method...

$t = A\left[2\left(\sqrt{1-\varepsilon_*^2} - \sqrt{1-\varepsilon^2}\right) + B(\arcsin\varepsilon - \arcsin\varepsilon_*)\right]$ (16). For Eqs. (15) and (16), the definitions $A = (F \cdot F_1 \cdot p_r)/\varphi \cdot f \cdot a_T \cdot s$; $B = \varepsilon_i - sx_o/F_1 \cdot p_r$; $\varepsilon_i = p_i/p_r$; $\varepsilon = p/p_r$; $\varepsilon_* = p_*/p_r$ hold, where φ is the rate of discharge, f the cross section of the pipe, p_r the pressure in the receiver, p_i the pressure at the starting moment of the motion, s the rigidity of the spring, ε_* the critical pressure ratio and a_T the sound velocity for isothermal processes. For the reciprocating motion, $t = (A_1 B_1/\sqrt{1-\varepsilon^2})\ \ln(p_i/p)$ holds in the case of supercritical conditions and

$$t = A_1\left[2\sqrt{\left(\frac{p}{p_0}\right)^2 - 1} - 2\sqrt{\left(\frac{p_*}{p_0}\right)^2 - 1} - B_1\left(\operatorname{arch}\frac{p}{p_0} - \operatorname{arch}\frac{p_*}{p_0}\right)\right]. \quad (18)$$

of subcritical ones. For Eqs. (17) and (18), the definitions $A_1 = (F \cdot F_2 \cdot p_o)/(\varphi f \cdot a_T \cdot s)$; $B_1 = p_k/p_o - x_o s/F_2 \cdot p_o$; $F_2 = F + \mu F_s$ hold, where p_i is the pressure at the moment of piston motion, p_k the pressure at the moment of the piston stoppage, p_o the atmospheric pressure, and

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Approximation method...

Plekhov I. M. Priblizhennyy metod rascheta pnevmaticheskikh mekhanizmov dvukhstoronnego deystviya (Approximation method for calculating two-sided pneumatic mechanisms). "Izvestiya vysshikh uchebnykh zavedeniy SSSR", "Priborostroyeniye", 1961, no. 1). Fig. 2 shows the experimental and the calculated pressure- and displacement curves for a straight motion. The maximum difference between the experimental and calculated data amounted to 10 %. The equation determining the equality of the forces acting on the piston during straight piston motion has the form $mx'' + Q + Q_o + Q_s + sx + F_s(p - p_o) = F(p - p_o)$ (11). Without considering the forces of inertia, Eq. (11) changes to the form $p = p_i + sx/F_1$ (12) (Q_s is the force of preliminary compression, $p_i = p_o + (Q + Q_o + Q_s)/F_1$; $F_1 = F - F_s$). When inserting instead of G (air consumption) its value $G = \varphi f a_T \gamma_r \sqrt{1 - (p/p_r)^2}$ (13) in Eq. (2), $(\varphi f a_T/F)\sqrt{p_r^2 - p^2} = (x + x_o)p' + x'p$ (14) is obtained. For supercritical air velocity, $t = A[\varepsilon^2 - \varepsilon_i^2 - B(\varepsilon - \varepsilon_i)]/\sqrt{1 - \varepsilon^2}$ (15) holds and for suboritical conditions

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Approximation method...

The equations for calculating pressure and displacement have the form: $x = v_s\left[t-2\tau_o + (t+2\tau_o)e^{-t/\tau_o}\right]$ (6) and $p = p_i + (mv_s/\tau_o^2 F_1)te^{-t/\tau_o}$ (7) (v_s = rate of steady flow) and $v_s = GRT/p_i \cdot F$ (8). These equations produce for $mv_s > 0.7$ enough accurate results, while the change of the parameters is fluctuating for $mv_s < 0.7$, for which reason the time of motion can be determined according to V. V. Berdnikov (Ref. 3: Issledovaniye dinamiki porshnevykh pnevmaticheskikh dvigateley (Investigation of the dynamics of pneumatic piston engines). Tr. seminara po teorii mashin i mekhanizmov. Izd. AN SSSR, 1956, vol. 15, no. 60). The type of the change of parameters for reciprocating motion of the piston always oscillates around their values during steady motion, and the time of motion can therefore be determined without greater errors and without consideration of the forces of inertia, under the assumption that the piston suddenly assumes the velocity of the steady motion: $t = x/v_s$ (9). The pressure during steady motion is determined from the equation $p_i = p_o + (Q - Q_o)/(F + F_s)$ (10). Many experiments were conducted for controlling the calculated data. Diagram and description of the experimental device are given in the study by one of the authors (Ref. 1:

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Approximation method...

p_i being the pressure at the start of the movement, m the reduced mass of the piston and all moving parts, G the air consumption, Q the outer load, Q_o the load through elasticity of the piston rings and other connected mechanisms, μ the coefficient of friction of the piston ring against the cylinder wall, F_s the piston ring surface in contact with the cylinder wall, F the area of the piston, and x_o the initial coordinate of the piston; $x_o = V_o/F$. x is the displacement of the piston. Through joint solution of Eqs. (1) and (2), $(m/F_1)(x_o+x)x''' + (m/F_1)x' \cdot x'' + p_i \cdot x' = GRT/F$ (3) is obtained, which can only be solved by numerical integration (Ref. 2: Bezhanov B. N. Pneumaticheskiye mekhanizmy (Pneumatic mechanisms). Mashgiz, 1957), which is however time-consuming and difficult for practical calculations. The curves of pressure- and acceleration change can be described by the equation

$$x'' = A_o t \cdot e^{-(t/\tau_o)} \quad (4).$$

When inserting the expressions obtained for x, x' and x'' by means of integrating and differentiating of Eq. (4) into Eq. (3) at the initial condition $t = 0$ and $t = \infty$, one obtains for the coefficients A_o and τ_o:

$$A_o = GRTF_1/mx_oF \text{ and } \tau_o = \sqrt{mx_o/p_i \cdot F_1} \quad (5).$$

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S/146/61/004/002/005/011
B124/B206

26.2195

AUTHORS: Plekhov, I. M., Kozulin, N. A.

TITLE: Approximation method for calculating pneumatic mechanisms with unilateral effect

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 4, no. 2, 1961, 52-57

TEXT: The unilateral piston-movement mechanism with constant load is used when the reciprocating motion of the piston can proceed under the effect of an external load; the diagram of the unilateral mechanism is shown in Fig. 1. The equation determining the equality of forces acting on the piston can be written down in the form $mx'' + Q + Q_0 + \mu F_m(p-p_0) = F(p-p_0)$; after inserting $p_i = p_0 + (Q+Q_0)/F_1$ and $F_1 = F - \mu F_s$, $(m/F_1)\cdot x'' = p - p_i$ (1) is obtained. From the condition of the equality of the air quantity introduced and the change of the quantity of air in the filled volume, $Gdt = d(V\cdot\gamma)$ results. For isothermal pressure change in the working space of the cylinder, this equation takes the form $GRT/F = px' + (x+x_0)p'$ (2),

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Investigating the dynamic ...

reverse stroke is determined approximately by assuming that the velocity is constant. The duration of the final period is given. The results of this method of calculation were checked experimentally. The appropriate curves are depicted for comparison. According to the results of numerous experiments, the discrepancy between the calculated and experimental data for the total time of operation does not exceed 10%. The largest error is obtained with mechanisms having strokes under 50 mm at the velocity of piston motion above 1 m / sec. There are 2 figures and 6 Soviet - bloc references.

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Investigating the dynamic ...

air in the working chamber in kgf / m^3. Approximate formulae for the flow in subcritical conditions and in the supercritical condition of inflation are taken from (Ref. 1: B.N. Beshanov, Pnevmaticheskiye mekhanizmy (Pneumatic Mechanisms) Mashgiz, 1957) and (Ref. 5: I.P. Ginzburg, Prikladnaya gidrogazodinamika, (Applied Hydrodynamic of Gases), Izd. Leningradskogo universiteta, 1958). These formulae give most accurate results with long pipes. In the case of flow through orifices they result in an error of up to 5%. The full cycle of operation of a pneumatic mechanism consists of an initial, basic and final period. The time of the initial period is obtained for x = 0 ; for supercritical condition and for the subcritical case. The basic period begins when the pressure in the chamber reaches the value p . The relationship between the displacement and time is obtained by simultaneously solving (1) and (2). The approximate solution of the resulting equation was based on experimental results. After a series of transformations, the expressions for pressure, displacement and duration of the final period are obtained. The reverse stroke takes place under the force Q and the cycle consists also of 3 periods. The time of the initial period is obtained for supercritical case and subcritical case. The duration of the

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29330
S/119/61/000/010/002/006
D209/D303

26.Y190

AUTHORS: Kozulin, N.A., Doctor of Technical Sciences, Professor and Plekhov, I.M., Engineer

TITLE: Investigating the dynamic characteristics of pneumatic single-acting piston mechanisms

PERIODICAL: Priborostroyeniye, no. 10, 1961, 7 - 9

TEXT: The authors propose an approximate method of design for single-acting piston mechanisms. They make the following assumptions in deriving the formulae: The air flow in the pipe is quasistationary and isothermal; the friction force at the glands is independent of the piston velocity; the air efflux coefficient is constant; the effect of the damping device is ignored. The equation of motion of the piston is

$$\frac{m}{F - \mu F \mu} \cdot \frac{d^2x}{dt^2} = p - p_1 , \qquad (1)$$

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20041
S/146/61/004/001/005/016
B104/B215

Approximation calculation of ...

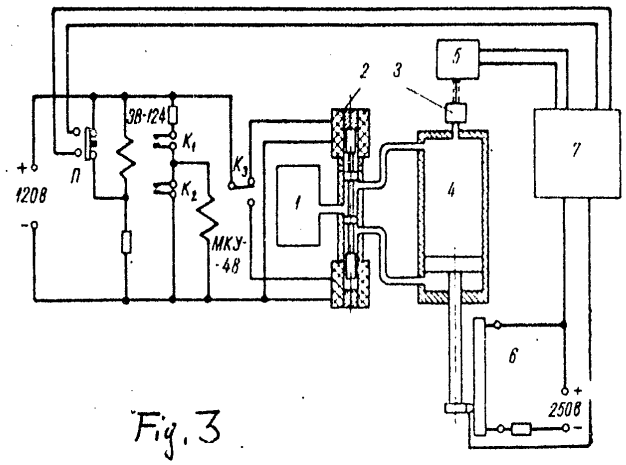

Fig. 3

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20041

S/146/61/004/001/005/016
B104/B215

Approximation calculation of ...

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta
(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: June 22, 1960

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are derived for these three periods, and a relation is given for the determination of the pressure in the cylinder. The approximation expressions thus obtained for the characterization of pneumatic mechanisms were studied by the experimental arrangement of Fig. 3, consisting of a receiver of compressed air 1, a valve 2, a piezoelectric pressure pick-up 3, a cylinder 4 with pistons, a d.c. amplifier 5, a rheostatic pick-up 6, and an oscilloscope. The results show that the pressure changes aperiodically when the piston is uniformly shifted, and a pressure pulsation occurs when the piston returns. These pressure pulsations, however, hardly affect the piston movement. The largest differences between calculation and experiment occur at the beginning of the piston movement, since here the effect of the mass of moving particles is strongest. Results obtained by computation and experiments are in good agreement, although the temperature correction suggested by B. N. Bezhanov has not been made. The publication of this article was recommended by the Kafedra avtomatizatsii khimicheskikh proizvodstv (Department of the Automation of Chemical Production). There are 6 figures and 7 Soviet-bloc references.

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Approximation calculation of ...

expansion in the cylinder are also isothermal processes. 4) Mechanical frictional forces are independent of the piston speed. In (1), m gives the mass of the moving parts, Q the external load, Q_o the friction caused by the piston sleeve, μ its frictional coefficient; F_m sleeve surface, F piston area, F_ω area of the piston rod, p_1 and p_2 pressures left and right of the piston. Referring to a paper by I. P. Ginzburg, the expressions $G_1 = \varphi_1 f_1 a_t \gamma_p \sqrt{1 - (p_1/p_r)^2}$ and $G_2 = \varphi_2 f_2 a_t \gamma_2 \sqrt{1 - (p_o/p_2)^2}$ are given for the air consumption left and right of the piston. p_r gives the pressure in the piping, p_o the atmospheric pressure, φ_1 and φ_2 the outflow coefficients, f_1 and f_2 pipe diameters, a_t the isothermal velocity of sound, γ the specific gravity of the air. The working time of the mechanism is described in detail. This time is divided into three sections: time of starting the engine, main period, and time of running down of the piston. Simplified formulas

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20041

S/146/61/004/001/005/016
B104/B215

AUTHOR: Plekhov, I. M.

TITLE: Approximation calculation of pneumatic mechanisms operating in two directions

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 4, no. 1, 1961, 43-52

TEXT: The author derives the equation of motion of the piston of a pneumatic mechanism;

писать

$$m\frac{d^2x}{dt^2}+Q+Q_0+\mu F_u(p_1-p_2)=Fp_1-(F-F_m)p_2-F_mp_0. \quad (1)$$

under the following conditions: 1) air flow in the tubes is quasi-steady, i.e. the air consumption at any moment is assumed to equal that of steady processes. 2) Air expansion accompanying the air flow in the tube is considered to be an isothermal process. 3) Compression and

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KOZULIN, N.A.; PLEKHOV, I.M.

Investigating dynamic characteristics of one-way piston pneumatic mechanisms. Priborostroenie no.10:7-9 O '61. (MIRA 14:9)
(Pneumatic machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLEKHOV, I.M.; KOZULIN, N.A.

Approximate calculation of pneumatic mechanisms with one-sided action. Izv.vys.ucheb.zav.; prib. 4 no.2:52-57 '61. (MIRA 14:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. Rekomendovana kafedroy avtomatizatsii khimicheskikh proizvodstv.
(Pneumatic machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

OVCHINNIKOVA, T.M.; PLEKHOV, I.M.; ROTINYAN, A.L.

Oscillographic measurement of the pH value in a cathode layer.
Zhur.prikl.khim. 36 no.6:1350-1352 Je '63. (MIRA 16:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hydrogen-ion concentration) (Electrodes) (Oscillography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLEKHOV, D.N.; MIROSHNIKOV, P.P., inzh.; KURCHERENKO, K.P., kand.tekhn. nauk

Mechanized units for molding three-dimensional elements of apartment houses. Stroi. i dor. mashinostr. 5 no.6:31-34 Je '60.
(Precast concrete construction) (MIRA 13:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

FLEKHOV, A., kapitan 3-go ranga

Development of Marxist-Leninist teaching on the [illegible] state in the program of the CPSU. Komm. Vooruzh. Sil no.1:29-36 Ja '65. (MIRA 18:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

MARKUZIN, N.P.; PLEKHOTKIN, V.F.

Fugacities of the components in the system acetic acid - triethylamine - carbon tetrachloride and its component binary mixtures. Vest. LGU 19 no.16:161-164 '64. (MIRA 17:11)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

MARKUZIN, N.P.; PLENKOTKIN, V.I. [illegible]

Concerning the existence of [illegible]
ethylenediamine - benzene [illegible]
no.9:1973-1978 S '62.

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Theorem of Existence and Uniqueness of the Solution to the Boundary Value Problem for a System of Ordinary Differential Equations

SOV/20-125-4-9/53

in G*, where $K(t, \xi)$ is a real bounded non-negative function which is either continuous or in $t_o \leq t, \xi \leq t_m$ it has jumps on the same lines as $G_p(t, \xi)$,

3) $\int_{t_o}^{t_\mu} \int_{t_o}^{t_\mu} K^2(t, \xi) d\xi dt < 1$, 4) $u(t)$ - solution of the integral equation $u(t) = \int_{t_o}^{t_\mu} K(t, \xi) u(\xi) d\xi + \| \varepsilon_o(t) \|$, where $\varepsilon_o(t) = -\int_{t_o}^{t_\mu} G_p(t, \xi) \cdot U^{-1}(\xi) \tau(\xi) d\xi + M_p(t, t_o) D_p^{-1}(b-B)$ and $\tau(t) = Y'(t) - f[t, Y(t)]$. Let the domain $t_o \leq t \leq t_\mu$, $\| Y(t) - y \| \leq \| U(t) \| u(t)$ lie in G*. Then the boundary value problem (1)-(2) has a unique solution $y(t)$ on $[t_o, t_\mu]$ for which $\| Y(t) - y(t) \| \leq \| U(t) \| u(t)$, $t_o \leq t \leq t_\mu$.

There are 3 Soviet references.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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Theorem of Existence and Uniqueness of the Solution SOV/20-123-4-9/55
to the Boundary Value Problem for a System of Ordinary
Differential Equations

Let $J(t,y)$ be a Jacobian matrix: $\left\{J(t,y)\right\}_{ik} = f_{ik}(t,y)$. Let $Q(t,y) = U^{-1}(t)\cdot J(t,y)U(t) - U^{-1}(t)\frac{d}{dt}U(t)$, where $U(t)$, for $t \in [t_o, t_\mu]$, belongs to the class C' and is not degenerate (see [Ref 1]). Further let $P(t)$ be a matrix continuous for $t \in [t_o, t_\mu]$ and let $M_p(t,t_o)$ be its "matrizant" (see [Ref 3])

$$M_p(t,t_o) = E + \int_{t_o}^{t} P(u)du + \int_{t_o}^{t} P(u)\int_{t_o}^{u} P(u_1)du_1 du + \dots .$$ Let further

$$D_P = \sum_{m=0}^{\mu} \alpha_m U(t_m) M_P(t_m, t_o) \quad \text{and} \quad G_p(t,\xi) = \frac{1}{2} M_P(t,t_o) D_P^{-1} \left\{ \sum_{m=0} \right.$$

$$\cdot \left[\operatorname{sign}(t-\xi) - \operatorname{sign}(t_m - \xi)\right] \alpha_m \cdot U(t_m) M_P(t_m, t_o) \Big\} M_P \left(\xi, t_o\right).$$

$\xi \neq t$, $\xi \neq t_m$.

Theorem: Let 1) $\det D_P \neq 0$, 2) $\left\| G_p(t,\xi)\left\{ Q(\xi,y) - P(\xi)\right\}\right\| < K(t,\xi)$

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

AUTHOR: Plekhotin, A.P. SOV/20-123-4-9/55

TITLE: Theorem of Existence and Uniqueness of the Solution to the Boundary Value Problem for a System of Ordinary Differential Equations (Teorema sushchestvovaniya i yedinstvennosti resheniya krayevoy zadachi dlya sistemy obyknovennykh differentsial'nykh uravneniy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 613-615 (USSR)

ABSTRACT: Given the system

(1) $y' = f(t,y)$

with right sides continuously differentiable in G and the boundary condition

(2) $\sum_{m=0}^{M} \alpha_m y(t_m) = b, \quad t_0 \leq t_1 \leq \ldots \leq t_m$

where α_m are given matrices and b is a given vector. Let the vector $Y(t)$ have a continuous derivative $Y'(t)$ for $t \in [t_0, t_M]$ where for $t \in [t_0, t_M]$ the point $(t, Y(t)) \in G^*$ and $G^* \subset G$ is convex in all y_i. Let

(3) $\sum_{m=0}^{M} \alpha_m Y(t_m) = B.$

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PLEKHNOVA, Mariya Il'inichna, USHKALO, Petr Mikhaylovich; KARTAVOV, S.A., kandidat tekhnicheskikh nauk, retsenzent; LEVITSKIY, P.A., kandidat tekhnicheskikh nauk, redaktor; SOROKA, M.S., redaktor izdatel'stva; LYKHOTA, M.A., tekhnicheskiy redaktor

[Standardization of technological processes under conditions of independent production] Tipizatsiia tekhnologicheskikh protsessov v usloviiakh individual'nogo proizvodstva. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 51 p. (MLRA 9:7)
(Efficiency, Industrial)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLEKHNEVICH, V.F.

Using the compression method for manufacturing the rim bands of automobile tires. Kauch.i rez. 21 no.3:48-49 Mr '62. (MIRA 15:4)

1. Leningradskiy shinnyy zavod.
(Vulcanization)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

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FILIMONOV, I.N., prof.; KONONOVA, Ye.P., prof.; LAVRENT'YEV, B.I., prof.; PLECHKOVA, Ye.K., prof.; SNESAREV, P.Ye., prof., zasluzhennyy deyatel' nauki; GRASHCHENKOV, N.I., otv.red.; BOGOLEPOV, N.K., prof., red.; DAVIDENKOV, S.N., red.; MIKHEYEV, V.V., prof., red.; RAZDOL'SKIY, I.Ya., red.; SMIRNOV, L.I., red.; FUTER, D.S., prof., red.; SENCHILO, K.K., tekhn.red.

[Multivolume manual on neurology] Mnogotomnoe rukovodstvo po nevrologii. Moskva, Gos.izd-vo med.lit-ry. Vol.1, book 1. [Anatomy and histology of the nervous system] Anatomiia i gistologiia nervnoi sistemy. 1959. 487 p. (MIRA 12:8)

1. Chlen-korrespondent AMN SSSR (for Filimonov, Razdol'skiy, Smirnov). 2. Chlen-korrespondent AN SSSR (for Lavrent'yev, Grashchenkov). 3. Deystvitel'nyy chlen AMN SSSR (for Grashchenkov, Davidenkov). (NERVOUS SYSTEM)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

KROKHINA, Ye.M.; PLECHKOVA, Ye.K.

Histochemical study of cholinesterase in the intramural nervous elements of the mammalian heart. Trudy Inst. norm. i pat. fiziol. AMN SSSR 6:94-96 '62 (MIRA 17:1)

1. Laboratoriya neyrogistologii imeni B.I.Lavrent'yeva (zav.-prof. Ye.K.Plechkova) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

PLECHKOVA, Ye.K.; ARAPOVA, T.N.

Histochemical study of cholinesterases and phosphomonoesterases in the intramural nervous apparatus of the urinary bladder of mammals. Trudy Inst. norm. i pat. fiziol. AMN SSSR 6:88-90 '62. (MIRA 17:1)

1. Laboratoriya neyrogistologii imeni B.I.Lavrent'yeva (zav. - prof. Ye.K.Plechkova) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR).

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DEREVYANKO, S.N., ...; PERKHOTKIN, V.P., inzh.

Automatic ... of ... [illegible]
Elektr. sviaz', no.9:14-15 S '62. (MIRA 15:9)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200014-6

ARKHIPENKO, D.K.; PLEKHANOVA, Ye.A.

Infrared spectra of kaolinite and its dehydration product. Izv. Sib. otd. AN SSSR no. 3:109-112 '61. (MIRA 14:5)

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